



SCRAP AND RECYCLING

DRS SCRAP SHEARS



IN THE END... IT'S ONLY ABOUT THE RIGHT TOOL

DRS SCRAP SHEARS

The DEMAREC DRS mobile shear was engineered to deliver a scrap shear with a high force, high speed and lowest weight ratio for best performance in daily use on scrap yards and demolition sites. This robust tool can be used for a wide variety of jobs including demolition, scrap processing and tire recycling.

Key Features and Benefits

- High cutting force and optimal performance to weight ratio.
- Powerful cylinder with speed valve – fully protected in the shear body
- Fast cycle times
- More cutting force due to offset APEX of shear blades
- Body made of wear resistant, fine grained steel
- Heavy duty bearings in the pivot points for a long lifetime
- Unique, extremely robust Shear Arm Guiding System (SGS)
- Robust mouth design with large opening for scrap
- Exchangeable and re-weldable piercing tip
- Main blades are 3 times indexable
- Unique Blade Locking System (BLS) in upper and lower jaw
- Heavy duty 360° rotation with slewing ring (shear also available without rotation)
- Filters in rotation circuit

Exchangeable Wear Parts

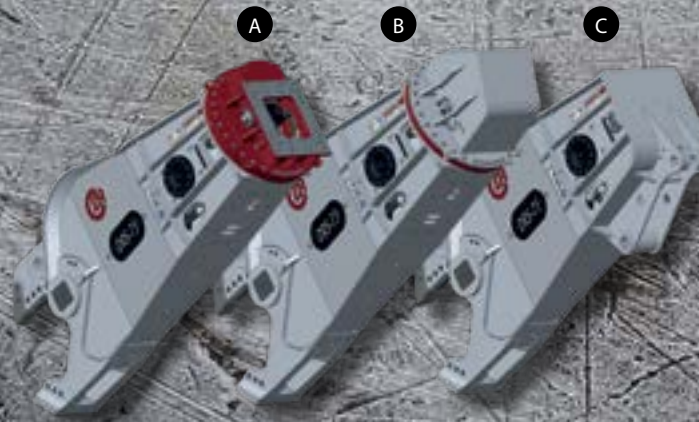
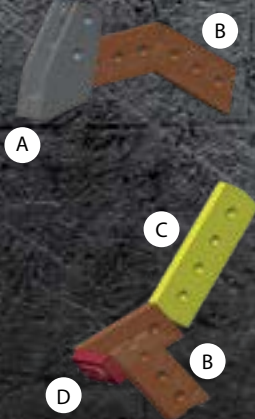
- Exchanging of wear parts on site
- High wear-resistant wear parts
- All blades can be loosened from outside

A Piercing tip

B Main blades with SGS (4x)

C Main Blade (1x)

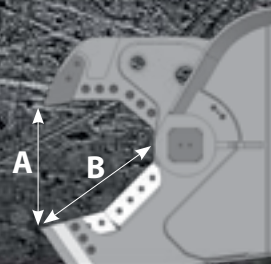
D Front cutter



A- Version: DRS rotating shear, to mount on dipper or boom with a bolt-on adapter

B- Version: DRS rotating shear, to mount on boom with a weld-on adapter

C- Version: DRS non-rotating shear, to mount on boom with a weld-on adapter



Technical specs Scrap Shears with 360° Rotation or rigid mount (without Rotation)

Type	Weight*	Length	Jaw opening (A)	Jaw depth (B)	Primary cutter	Cutting force**	Operating weight	Operating weight
	(kg)	(mm)	(mm)	(mm)	length (mm)	(kN)	[boom] (t)	[dipper] (t)
DRS-25-A	2150	2740	500	572	180/280	4592	14-20	20-30
DRS-30-A	3100	2965	570	619	200/300	6300	18-25	25-35
DRS-45-A	4100	3290	625	674	225/330	7720	25-35	32-50
DRS-60-A	5550	3660	720	775	250/380	9265	30-45	45-65
DRS-60-B	5640	4100	720	775	250/380	9265	30-45	-
DRS-60-C	4850	3285	720	775	250/380	9265	25-35	-
DRS-75-A	6950	4075	835	885	300/440	11420	35-60	60-80
DRS-75-B	7050	4550	835	885	300/440	11420	35-60	-
DRS-75-C	6200	3650	835	885	300/440	11420	30-50	-
DRS-90-A	8500	4800	950	991	350/480	13510	45-75	75-100
DRS-90-B	8600	5000	950	991	350/480	13510	45-75	-
DRS-90-C	7700	4100	950	991	350/480	13510	40-70	-

*excl. adapter **At throat

Type	Back pressure	Working cycle				Opening/ Closing	Rotation
		Pressure max.	Flow	Pressure max.	Flow	max.	Opening/ Closing
		(bar)	(l/min)	(bar)	(l/min)	(bar)	(sec)
DRS-25		380	200-300	140	40 - 60	-	2,9 / 2,3
DRS-30		380	300-400	140	40 - 60	-	3,7 / 2,2
DRS-45		380	400-600	200	60	10 (drain line required)	3,0 / 2,2
DRS-60		380	600-800	200	60	10 (drain line required)	3,0 / 2,5
DRS-75		380	700-1000	200	80	10 (drain line required)	3,5 / 2,5
DRS-90							

Steel Profiles		DRS-25	DRS-30	DRS-45	DRS-60	DRS-75	DRS-90
H-beams	light	HEA 280	HEA 340	HEA 400	HEA 500	HEA 600	HEA 700
	normal	HEB 200	HEB 260	HEB 300	HEB 360	HEB 400	HEB 450
	heavy	HEM 100	HEM 140	HEM 160	HEM 180	HEM 200	HEM 220
I-beams	light	IPE 450	IPE 500	IPE 600	IPE 700	IPE 800	IPE 900
	normal	INP 320	INP 400	IPN 450	IPN 500	IPN 550	IPN 600
L-angles	(mm)	200x200x15	250x250x20	250x250x25	300x300x25	300x300x30	350x350x30
solid round	(mm)	75	90	100	115	130	150
solid square	(mm)	65	80	90	100	120	135
piercing plate	(mm)	15	20	25	25	30	35
pipe x wall	(mm)	254 x 9	304x10	406x10	457x10	559x10	609x10

This chart gives an indication of the cutting capacity of the DRS Shears based on the assumption of a working pressure of 350 bar, normal steel profiles with a tensile strength of maximum 370 N/mm², and a good condition of the blades. The DRS Shear divides larger profiles in two cuts as long the web thickness does not exceed the maximum thickness of the piercing plate.

Key Features and Benefits

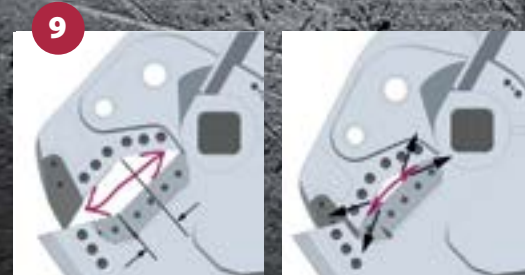
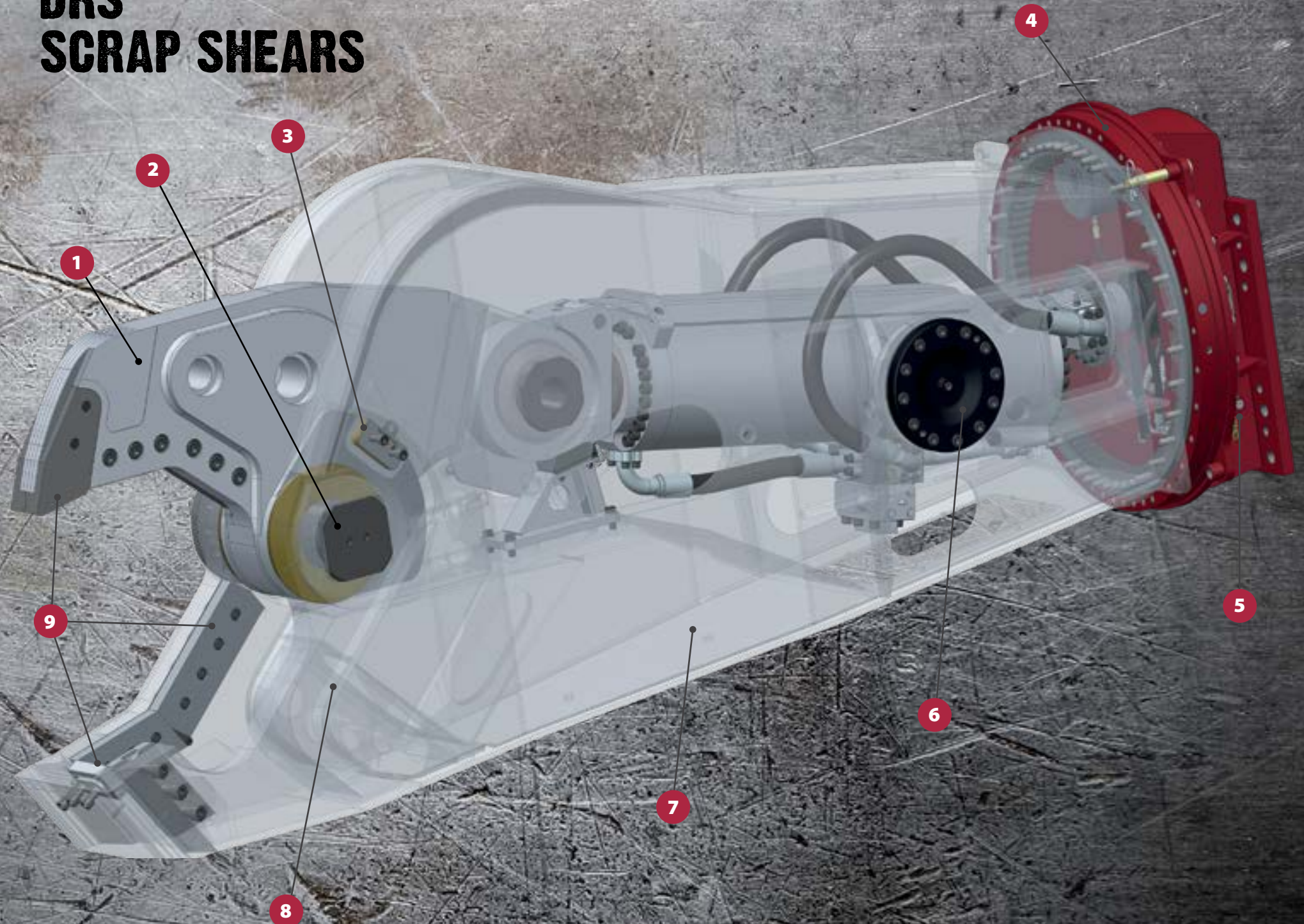
- 1 Shear Arm**
 - Massive shear arm
 - Heavy duty slim shear arm design guarantees an optimal penetration
 - Out of Hituff
- 2 Bearings**
 - Induction-hardened pins are seated in steel bearings
- 3**

 - Hardened lateral guide plates provide a stable support of the shear arm within the main bearing for a longer lifetime (Shear Arm Guide System SGS)
- 4 Heavy Duty Rotation**
 - 360° continuous rotation (shear also available without rotation).
 - Oversized slewing ring is able to bear high forces, shock loads and bending moments
 - Filters in rotation circuit
 - 2 Heavy duty motors for a maximum rotation torque (DRS 25-45)
 - One powerful piston Motor with drain line (DRS60-90)
- 5 DemaFilter-System** in rotation circuit
- 6 Cylinder / Hydraulics**
 - Strong long-stroke cylinder with speed valve
 - Trunnion design of the hydraulic cylinder results in an overall shorter shear length
 - Center of gravity closer to the machine adds to higher stability
 - Cylinder completely protected within the body
 - High capacity swivel helps to avoid high oil temperature and to ensure high oil flow / speed
 - Fast cycle times
- 7 Shear Body**
 - Strong box design made of high-strength fine grained steel
 - The shear body ensures highest strength
 - Fast access to hoses and hydraulics through service openings
- 8 Performance to Weight Ratio**
 - Endurance tests as well as FEM stress calculations confirm the weight optimized design and provide an ideal weight / power ratio

- 9**

 - Optimal mouth design with large opening
 - More cutting capacity due to offset APEX of shear blades
 - Piercing tip is exchangeable and re-weldable
 - All blades can be released from the outside
 - Blade Locking System (BLS) in upper and lower jaw

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Offset APEX: Steel is compressed and molded in the mouth and thus easier to cut



A DRS 25-45 Jaw is fully guided by hardened shims. Unique, extremely robust Shear Arm Guiding System (SGS) – easy to maintain



B DRS 60-90 is equipped with an extra guide puck



DemaFilter-System in rotation circuit

FROM PASSION TO PERFORMANCE



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